



,

;

;

);

( - 1100° ).

800°

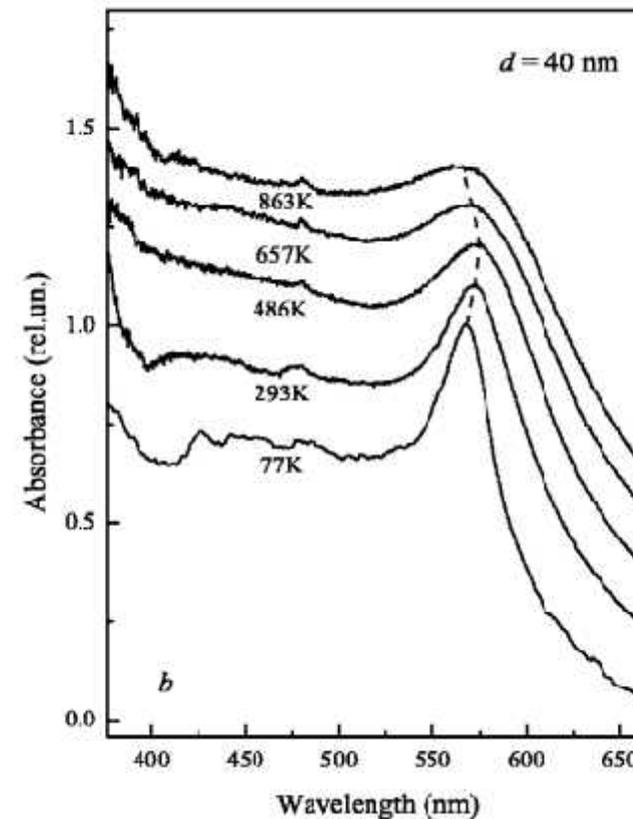
( )



1 -

;

( ) :  $CuE$  0,02 .%  
 $CuE:AgE$  0,005 .%



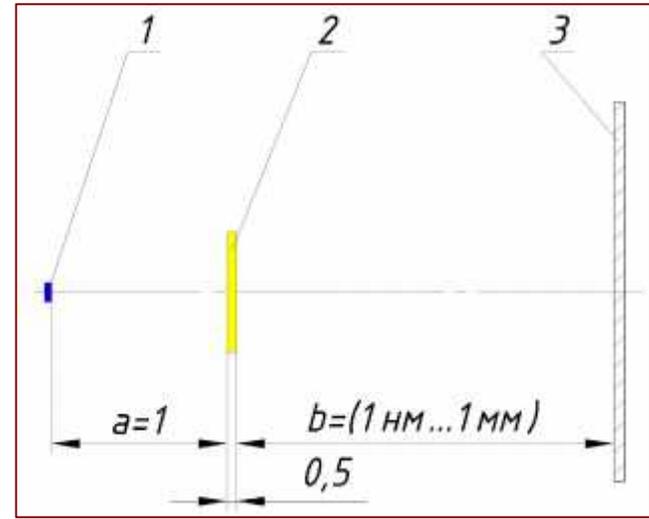
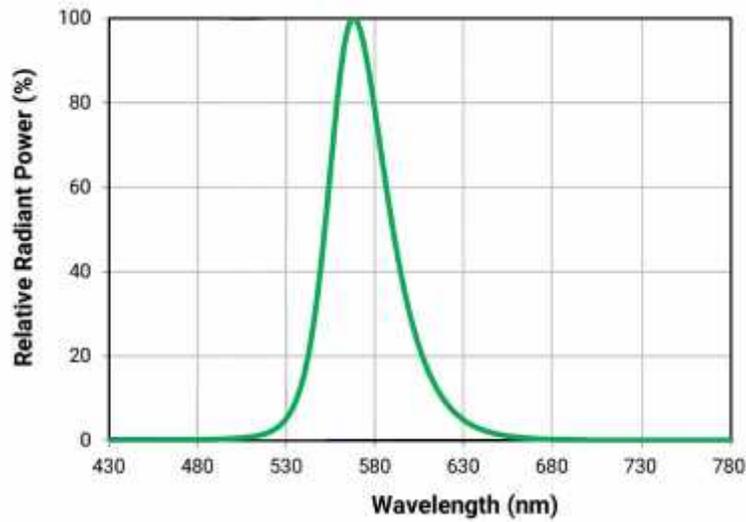
2 -

$SiO_2$

4G 5G



SiO<sub>2</sub>- , ( ),  
 ( ) ,  
 ( )<sub>max</sub> ,  
 CuF<sup>-</sup> ( ) ,  
 4). 0,5 . 10 10 . n̄1,456 . . 5  
 ( ) . 0 1 .



3 -  
 ( )<sub>max</sub>=565 ,  
 67,2 )

4 -